

Application No.: 09/381,696

Docket No.: 22032-00035-US

**AMENDMENTS TO THE CLAIMS**

The following listing of claims replaces all prior versions and listings.

1. (currently amended) A nuclear reactor device comprising:

- a reactor containment (1), formed by a first wall member (2) defining an inner space (3);
- a reactor vessel (6), housing a reactor core (7) and being ~~provided~~ located in the inner space (3); and
- an upper space (10) ~~provided~~ located above the reactor containment (1) and defined by a second wall member (11), ~~characterized in that~~ wherein the first wall member (2) and the second wall member (11) have, ~~seen~~ viewed in a horizontal section, an essentially identical cross-sectional shape and form an essentially common cylinder, wherein said cross-sectional shape is essentially circular, wherein said first wall member and said second wall member form a continuous sliding form casting, and wherein said upper space is divided into part spaces forming water-filled pools.

2-3. (canceled)

4. (currently amended) A nuclear reactor device according to claim [[3]] 1, ~~characterized in that~~ wherein the first wall member (2) and the second wall ~~member~~ (11) ~~are cast in~~ are constructed of concrete with including reinforcement members, and wherein said first wall member and said second wall member comprise (29, 30) provided in the concrete and comprising tightening members (30) arranged to enable biasing of said ~~wall members (2, 11)~~ first wall member and said second wall member.

5. (currently amended) A nuclear reactor device according to claim 4, ~~characterized in that~~ wherein said tightening members (29) extend in the second wall member (11) at least in one of the directions about the upper space (10) and along the upper space (10).

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6. (currently amended) A nuclear reactor device according to claim 1, ~~characterized in that~~ wherein at least the second wall member (11) comprises a wall coating (28) ~~provided onto the~~ disposed on an inner side of the casting.
7. (currently amended) A nuclear reactor device according to claim 1, ~~characterized in that~~ wherein the upper space (10) is divided into part spaces (12-16) by means of at least one primary wall element (17) extending between two separated attachment portions of the second wall member (11).
8. (currently amended) A nuclear reactor device according to claim ~~[[7]]~~ 1, ~~characterized by~~ wherein the upper space is divided into part spaces by means of two primary wall elements (17) separated from each other and each extending between two separated attachment portions of the second wall member (11).
9. (currently amended) A nuclear reactor device according to claim 8, ~~characterized in that~~ wherein the two primary wall elements (17) are essentially parallel to each other.
10. (currently amended) A nuclear reactor device according to claim 8, ~~characterized by~~ comprising two secondary wall elements (18) which extend between the two primary wall elements (17) and which between themselves and together with the primary wall elements (17) form an isolated part space (12).
11. (currently amended) A nuclear reactor device according to claim 10, ~~characterized in that~~ wherein the isolated part space (12) is located above a cover device (19) of a separating wall (9) separating the upper space (10) from the inner space (3).
12. (currently amended) A nuclear reactor device according to claim 1, ~~characterized by~~ comprising door members (22) arranged to provide a passage (21) between at least two of said part spaces (12-16).
13. (withdrawn) A method of constructing a nuclear reactor device, comprising the steps of:

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- casting a first wall member defining an inner space of a reactor containment intended to comprise a reactor vessel to be arranged in the inner space and housing a reactor core, and
- providing a second wall member defining an upper space above the reactor containment, characterized in that the first wall member and the second wall member are cast by means of an essentially common form being lifted upwardly during the course of the casting process, wherein the first wall member and the second wall member have, seen in a horizontal section, an essentially identical cross-sectional shape and form an essentially common cylinder.

14. (withdrawn) A method according to claim 13, characterized in that the said form comprises a sliding form.

15. (withdrawn) A method according to claim 13, characterized in that the casting of the second wall member is preceded by the lifting to a position of prepared blocks comprising reinforcement members and an inner wall coating.

16. (withdrawn) A method according to claim 15, characterized in that the during the course of the casting process tightening members are provided in said wall member in such a manner that they extend in at least one of the directions about said spaces and along said spaces, and that the tightening members after the casting process are tightened to prestress said wall member.

17. (withdrawn) A method according to claim 16, characterized in that the tightening members are provided in tubes provided in said wall member.

18. (withdrawn) A method according to claim 17, characterized in that after or in connection with said tightening concrete is injected into said tubes.